

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : **2000-275550**

(43)Date of publication of application : **06.10.2000**

(51)Int.Cl.

**G02B 26/08**

**G02B 26/10**

(21)Application number : **11-082520**

(71)Applicant : **VICTOR CO OF JAPAN LTD**

(22)Date of filing : **25.03.1999**

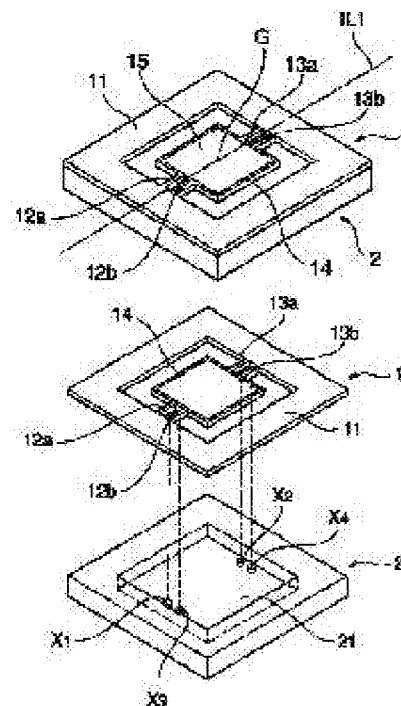
(72)Inventor : **OKUMURA MIKIO**

## (54) OPTICAL DEFLECTOR AND VIDEO DISPLAY DEVICE

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To enable the optical deflector of the video display device to obtain a large angle of deflection, deflect incident light fast, and increase in reliability.

**SOLUTION:** Support beam parts 12a and 12b, and 13a and 13b are arranged in parallel symmetrically about a virtual line IL1 passing the center G of gravity, and laser light emitting elements X1 and X2, and X3 and X4 are provided at the positions corresponding to the beams of the support beam parts 12a and 12b, and 13a and 13b respectively and driven so as to irradiate alternate combinations of the support beam parts (12a and 13a) and support beam parts (12b and 13b) divided by the virtual line IL1 with laser light. Further, the size of a movable mirror part 14 and the position relation of the support beam parts 12a and 12b, and 13a and 13b are optimized and the elements are driven at a natural oscillation frequency to obtain a large angle of deflection and fast operation.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

